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MEMORANDUM FOR:	Chief, Military Division, OCI		
ATTENTION:			
FROM:	Chief, CIA/PID (NPIC)		
SUBJECT:	Shipunski Peninsula, Kamchatka USSF	R, Photo Study	
REFERENCE:	Requirement No. C-Cl3-80,815 (Proje	ect No. C 1671-63)	
coverage of the approximately 45	minary photographic study was made of Shipunski Peninsula, Kamchatka, USSF nm ENE of Petropavlovsk, in order t rine or related activity in this are	R (53 OGN-160 OZE),	
2. A missi	on by mission analysis of all activi	ty discermable in this	
area from covera	ge dated spect activity in the Shipunski Peni	has revealed	
the following su (a). ing gr Bay at that t small top an	ge dated	has revealed nsula area: tted on the accompany- th side of Bechevinskaya a coverage has indicated type support area, a gs situated at both the	
area from covera the following su (a). ing gr Bay at that t small top an upper (b). under 53 16N ified approx itity,	ge dated spect activity in the Shipunski Peni spect activity in the Shipunski Peni An unidentified installation (annota aphics as area "A") first noted on under construction on the Nor 53 16N-159 48E. Subsequent mission his area contains a small barracks-t possible secured area, a few building dase of a small truncated spur whi portion of Bechevinskaya Bay. A possible naval base (annotated as construction on construction on specific firstallation (Area "A") noted above. Simulately 10 small buildings, extensive 3 new roads, one 430 feet long pier ill construction), and one probable	has revealed nsula area: tted on the accompany- th side of Bechevinskaya a coverage has indicated type support area, a gs situated at both the ch protrudes into the Area "B"), first noted at 0 feet SE of the unident- This area contains the ground scarring activ- approach (probably of	

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(c). One operational SA-2 SAM site, first observed on located at 53 12 48N-159 46 30E in nearly inaccessable terrain 7 nm west of Baza and $3\frac{1}{2}$ nm south of area "B". Additional unidentified construction activity located tangent and SSW of the SA-2 site has been observed since This activity consists of a cleared area with possibly one or two buildings.
(e). Two large and 4 small unidentified vessels and one possible large dredge were observed in Bechevinskaya Bay on
3. A more detailed description of the activity noted in the course of this study, containing texts keyed to each instance of photographic coverage, is forwarded via enclosure (1) to this memorandum.
4. An attempt was made to compare the facilities observed at Bechevin-skaya Bay with those of another installation recently confirmed as a naval (submarine) operating base (Pavlovskogo Bay Naval Base). The results of this comparison are forwarded as enclosure (2) to this memorandum.
5. The measurements obtained for both the pier approach and the vessel located in Bechevinskaya Bay (see Photo # 10) were performed by the Technical Analysis Branch, TID (NPIC). Lack of sufficient ephemeris information from precluded the obtaining of reliable mensuration data on objects noted in photos 6 and 7.
6. All coordinates referenced in this memorandum were obtained from the unedited proof copy of AMS Series DESPA-1, Sheet NN 57-8. The photography plotted on USATC 0194-18A (Map $\#$ 2) is relative; hence no attempt was made to plot on map $\#$ 2 the installations described in the text.
7. Forwarded for your retention is a notebook (CIA/PID/GMB/P-5034/63, copy number 1) containing 13 annotated photo enlargements, 4 annotated maps, and pertinent extracts from H.O. 122A. It is intended that these enclosures be incorporated at a later date into a larger study on Soviet Pacific Fleet Submarine Bases and Operational Areas now in preparation.
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8. The photo analysis on this project was performed by CIA/PID/GMB (NPIC), who may be contacted on for any additional information.	
ENCLOSURES: 1. Description of Activity Observed in Shipunski Peninsula Area, Kamchatka, USSR, from	
 A comparison between the Possible Naval Base Observed Under Construction at Bechevinskaya Bay with Pavlovskogo Bay Naval Base. 	
3. One notebook (CIA/PID/GMB/P-5034/63, copy number 1).	
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	DESCRIPTION OF ACTIVITY OBSERVED IN SHIPUNSKI PENINSULA AREA, KAMCHATKA, USSR,
Photo No.	. 1 (mosaic)
entire Sh of the wh	to No. 1, representing the most recent cloud-free coverage of the hipunski Peninsula, is forwarded as an inclusive small-scale view hole area under investigation. It will be noted that photo no. 1 a key to the larger scale photos (nos. 2-11) illustrating the areas of interest described in this memorandum.
Photo No.	. 2
extends 8	activity was noted on either side of Bechevinskaya Bay. Bay ice approximately 1,700 feet to seaward from the subsequent location ge pier approach seen on photos no. 10 and 11.
Photo No	• 3
ation, a of Beche 53 16 30 building a ridge faint tra and inte are as y consisti a level served a describe against encroach forth be	photography revealed an unidentified install-parently still under construction, situated on the northern shore vinskaya Bay, approximately 4 nm from the entrance to the bay, at NN-159 48 25E. The installation at this time consisted of: (1) two is located at the base of a small truncated spur which extends from line and protrudes slightly into the bay at this point; (2) two lils in the shape of a "V" leading straight up the side of the spur ersecting in a small cleared area on top of the spur (no buildings ret discernable on top of the spur); (3) a probable support area and of approximately 6 possible barracks-type buildings situated in valley just back from the bay; (4) an isolated snow-cleared, roadarea located approximately 1,500 feet to the west of the support area and above; and (5) a road-served small probable pier area located the eastern base of the ridge and immediately south of the furthest muent of bay ice. This installation is labelled, and shall hence-tereferred to as Area "A". No vessels were noted in Bechevinskaya this coverage.
Photo No	o. 4
A fare keye	faintly discernable SA-2 SAM site and two associated support buildings ed into a poor quality small scale view of Bechevinskaya Bay and vic-
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Five very small launch positions and the corner outlines of 2 possible support buildings were barely visible on coverage of this area. The SAM site is located at 53 12 48N-46 30E, approximately 7 nm west of the town of Baza (see map no. 2) and 4 nm SE of the unidentified installation at area A (see photo no. 8 for a more detailed view of this site).
Photo No. 5
One new pier apparently of hard fill construction, was observed at 53 16 10N-159 47 20E. Another new pier of undetermined construction is located approximately 1,000 feet ENE of the probable hard fill pier just noted. Approximately 5 small new buildings have been constructed just north of the piers. (This area shall now be referred to as Area "B"). As yet there appears to be no road link between area "A" (the unidentified installation first noted in photo no. 3) and area "B"; however, a new road appears under construction linking the buildings of area "B" with the two piers. An unimproved trail paralleling the NW shore of Bechevinskaya Bay can be seen leading approximately $1\frac{1}{2}$ nm SW from area "B" to the shingle spit extending into the middle of the bay at this point. The trail does not as yet appear to have spans over any of the numerous small steep ravines located in the area.
Photo No. 6
Although the over-all quality of coverage over the Ship-unski Peninsula is poor it was noted that the glare effect recorded on the forward camera enabled a more detailed examination of over water targets than did the aft camera (see photo no. 5). The following marine activity was observed in Bechevinskaya Bay from this photography: two large and four small unidentified vessels; and one possible large dredge. Although windslick was noted on the NNE sides of the larger vessels in the bay it was felt that the greater tonal change noted in the water NNE of the rectangular object evaluated as a possible dredge could have been caused by a combination of wind slick and discoloration - possibly due to dredging activity. Two small piers are visible just to the SE of Area "A".
Photo No. 7
This small scale view of the NW portion of the Shipunski Peninsula was included to illustrate the relative positions of the SA-2 SAM site located $3\frac{1}{2}$ nm south of Area "B" and also a new unidentified circular area located 7 nm east of Area "B".
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Poor imagery of all but the SAM site, a more detailed view of which can be seen in photo no. 8 precluded any detailed interpretation from this coverage of the Shipunski Peninsula. Two, and possibly 4, small buildings were faintly visible at this time in a clearing atop the truncated spur located at Area "A". Only one pier was noted in each of the two areas ("A" and "B") along the NW shore of Bechevinskaya Bay. A faint trail was noted between Areas "A" and "B", and the trail leading SW from Area "B" to the shingle spit appears to have been slightly improved; the first few ravines appear to have been spanned at this time. (For a more detailed view of Areas "A" and the unidentified circular area to the East see photos no. 9 and 10).

Photo No. 8

Photo no. 8 is the best view, to date, of the SA-2 SAM site located on the westernmost corner of the Shipunski Peninsula at 53 12 48N-159 46 30E. The site is located on a small level area atop a 1,000 feet ridge and is served by a winding road which crosses very difficult terrain to a landing area situated just to the ENE of the shingle spit on the SE side of Bechevinskaya Bay. No berthing or off-loading facilities were noted in this area. A support area containing 2 large and several smaller buildings is located just east of the launch area. As noted on the photography an unidentified, small, apparently circular, cleared area, containing possibly one or two buildings, can be seen tangent to the south side of the main launch complex.

Photo No. 9

This is a later, larger scale view on better quality photography of the unidentified circular area located on the east side of Mys Argali at 53 15 30N-160 Ol 10E, which was faintly visible on (see photo no. 7). Although scattered clouds covered a large portion of this area the following activity was observed: (1) an irregularly defined circular area just north of, and connected by road with; (2) a support area containing an undetermined number of large buildings (approximately 4 barracks-type buildings were visible through the clouds); (3) a probable pipeline connecting the support area with a small lake located approximately one nm to the WSW; and (4) a newly improved road serving the entire installation can be observed switch-backing over two steep ridges before descending to a beach area located approximately 1.5 nm to the south. No off-loading or berthing facilities for supply vessels were noted in this area. (Note: USATC 0194-18A labels the headland at 53 16N 160 OlE as "Mys Argali". H.O. 5810 labels only the island at the tip of this headland as "Ostrov Morzhovy", and labels the next cape north at 53 19N-159 59E as "Mys Argali". Since the photos are keyed into USATC 0194-18A they are labelled accordingly).

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Photo No. 10				
This photography is the latest and of Bechevinskaya Bay. The following add Area "A" (the unidentified installation (see photo no. 3): the barra contain 8 buildings; as indicated in the possibly 4, buildings are visible in the located just south of the barracks area. ing in Area "B" as evidenced by the heave Area "B" presently contains approximatel connected to Area "A" by a new road (see previously identified as a pier at 53 ld upon analysis of better quality photogra causeway, or pier approach, to an offshoof this projection appear irregular - the alongside berthing of vessels. The pier length of 430 feet. Approximately 500 f able new pier base appears to be under copiers noted in photo no. 5 is no longer Area "B" to the shingle spit is still un fied vessel, approximately 190 feet in 1 free portion of Bechevinskaya Bay.	ditional activity here first noted in class support area in the class support are ground scarring by 8-10 small build support in the construction of 10N-159 47 20E (supply, now appears the pier yet to be a supported by the class support to the class support in the construction. The construction of the class support in the construction of the class support in the construction.	as been noted in since ow appears to 7 above, 2, and truncated spur ivity is continuing and is now no. 7). The object see photo no. 5), to be connecting ouilt. The sides sitable for the approach a probapper of the two leading SW from only one widentia.	25X	1
Photo No. 11				
	7	X		
This graphic illustrates the latest photography, of the encroachment of bay be noted that the ice charts extracted f est limits of sea and land-fast ice occumenth for which no recent photographic c projection of the limits of bay ice that Bechevinskaya Bay for the month of Febru narrows formed by the shingle spits - a of the long pier approach. Whether such winter is not known.	ice into Bechevinsh rom H.O. 122A indic r during the month overage of this are could reasonably h ary should plot in distance of approxi	caya Bay. It should cate that the furth- of February - a ca is available. A ce expected in the vicinity of the		
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A COMPARISON BETWEEN THE POSSIBLE NAVAL BASE OBSERVED UNDER CONSTRUCTION AT BECHEVINSKAYA BAY WITH THE PAVLOVSKOGO BAY NAVAL BASE.

Photos No. 12 and 13

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Within the limitations imposed by the differences of terrain and the sequence of construction progress it is, nevertheless, possible to define certain areas of similarity between the possible naval base under construction at Bechevinskaya Bay and the naval (submarine) base located at Pavlovskogo Bay, formerly Strelok Strait, Anna (42 52N 132 32E).

- (1). Both areas are defended by SA-2 SAM sites located within 5 nm of the pier areas.
- (2). The long causewayed pier approach observed in Bechevinskaya Bay (see photo no. 10) appears similar in design to those located at the Strelok Strait Naval Base, Anna (refer to photo no. 11).
- (3). The layout of the barracks support area associated with Area "A", Bechevinskaya Bay (photo no. 10), is similar in design, although not identical, to the general pattern associated with the temporary barracks area constructed at Anna.
- (4). Neither area is served by rail. The Naval Base at Anna is connected by a good road to the railhead at Promyslavka some 9 nm to the NW while the Bechevinskaya Bay area is, at present, solely on waterborne re-supply.

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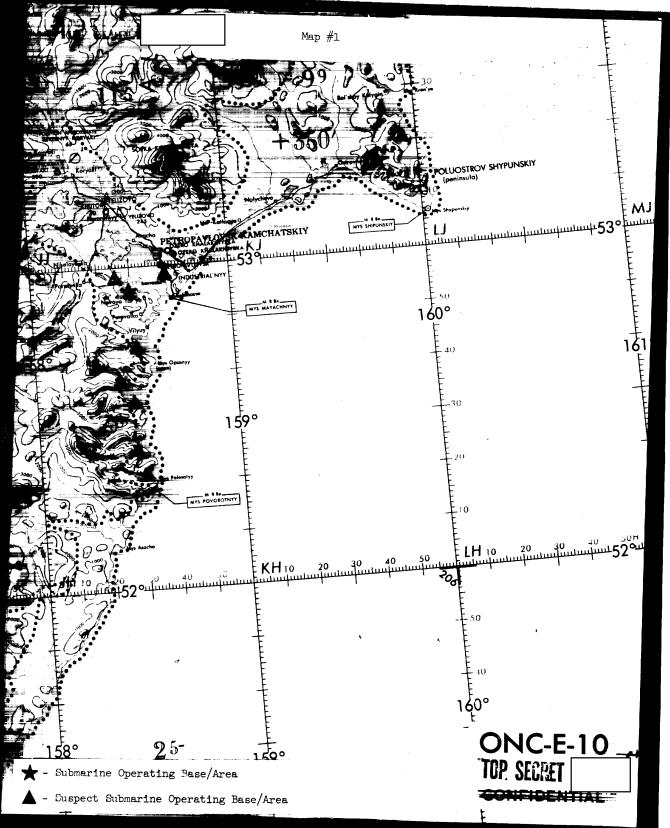


Photo #1 (Mosaic) DEPONUKI PENINGUA KAMCHATKA, TSSK Arrow A and B - -53-06N. 100-02E USATO 117-11 SA-2 SAM site (Ja onLurgement) U/t edivity

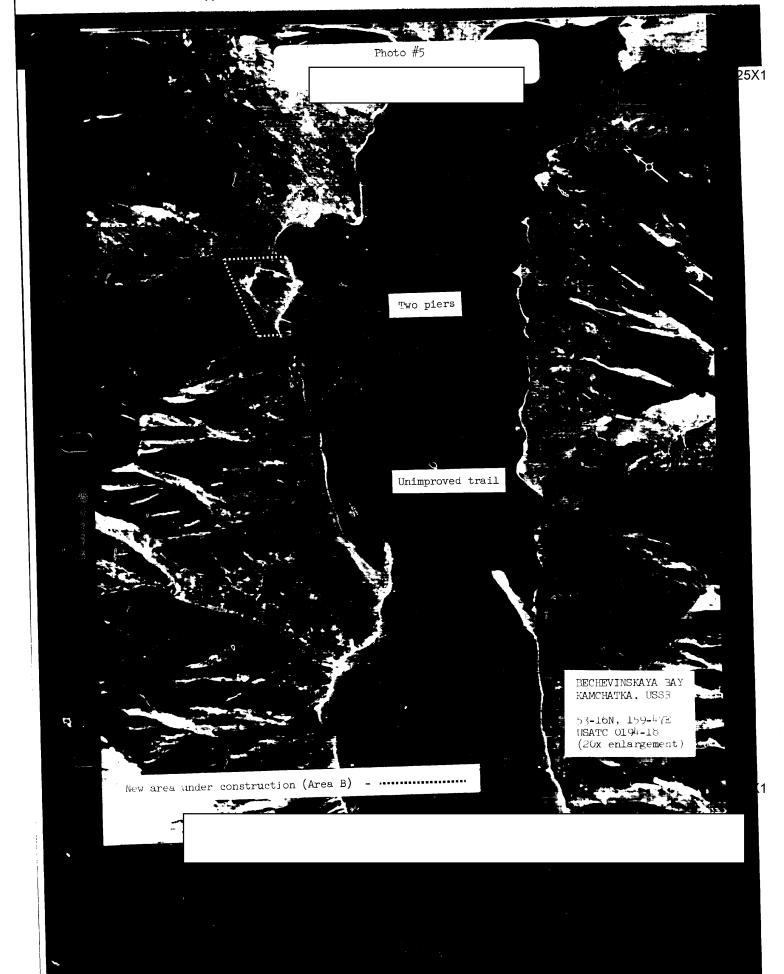
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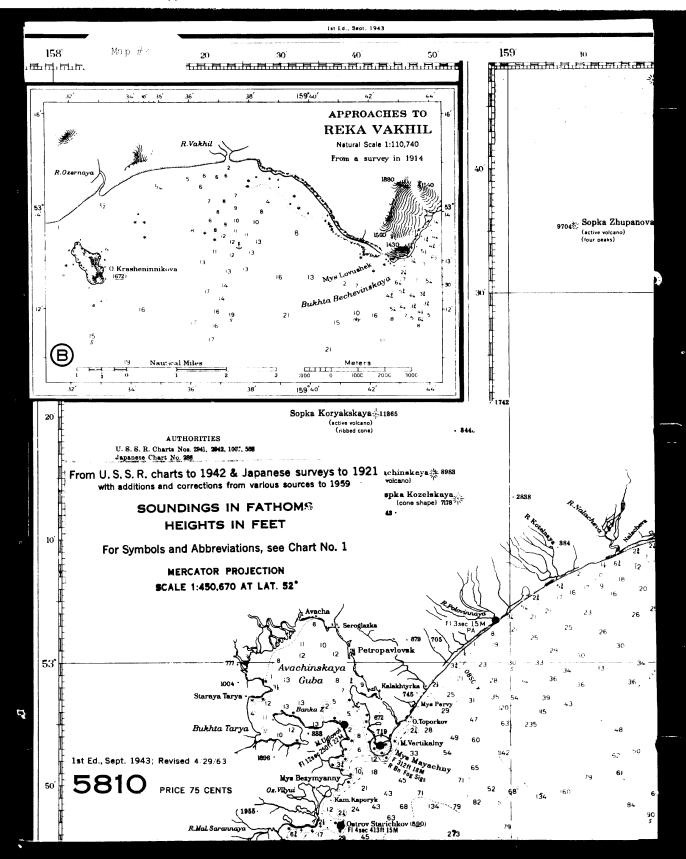


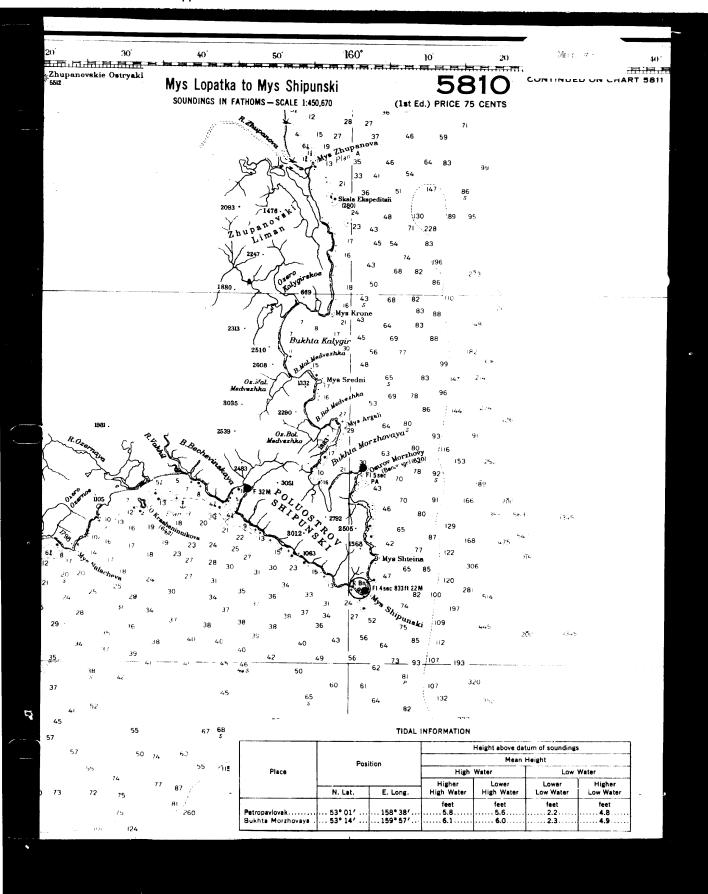


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8-53 Kamchatka current.—Between Mys Shipunskiy and Mys Vertikalnyy the main stream of the constant Kamchatka current flows in a general south-southwesterly direction and has a velocity from 0.7 to 0.9 knot; southward from Mys Shipunskiy, a narrow branch of the main Kamchatka current flows in the direction of Mys Nalachëva and has a velocity of 0.5 knot.

Tidal currents.—In the vicinity of Mys Shipunskiy the tidal currents attain a rate of 11/2 to 2 knots at springs and 1 knot at neaps. The tide wave advancing from the ocean divides at Mys Shipunskiy, one branch setting northward and the other northwestward along the coast. The two branches of the ebb currents meet about 10 miles southeastward of Mys Shipunskiy and form eddies and also a very confused short sea when the wind is fresh.

6-54 Directions.—Very dense fogs are prevalent in the vicinity of Mys Shipunskiy. A vessel approaching Mys Shipunskiy in thick weather should sound continually and should navigate in depths of not less than 60 fathoms. With smooth water the eddies will give a warning of the proximity to the cape. The bottom shelves more steeply off the eastern side than off the southern, and particularly the southwestern, side of the cape. The bottom is mainly shingle, changing to sand northward of the cape and to rock as the cape is approached.

6-55 MYS SHIPUNSKIY TO AVA-CHINSKAYA GUBA—Landmarks.—Sopka Koryatskaya (Strelochnaya) is an extiact volcano situated about 22½ miles southwestward of Sopka Zhupanova (see Sec. 6-34); its well-shaped conical summit rising to a height of 11,345 feet makes it a very conspicuous landmark particularly from the Avachinskaya Guba (Avacha Bay).

Sopka Avachinskaya, an active volcano, stands about 5 miles southeastward of Sopka Koryatskaya; its double-crateral summit rises to a height of 8,960 feet and ordinarily is identified by a light smoke rising from one of its

craters. There is never any snow near its summit owing to internal heat.

Sopka Kozel'skaya, an extinct volcano rising to a height of 7,178 feet, stands about 2½ miles southeastward of Sopka Avachinskaya. Its conical summit with gentle slopes is a particularly excellent landmark for the approach to Avachinskaya Guba, because it is situated only 10 miles inland and the white stripes of snow on its black slopes can be discerned through a light fog that may be sufficient to obscure other peaks.

6-56 Coast.—From Mys Shipunskiy the coast trends almost in a straight line northwestward to the southeastern entrance point of Bukhta Bechevinskaya. This elevated and bluff coast is backed by a mountain range with numerous sharp peaks rising to heights from 1,500 to almost 2,000 feet at about 1½ to 2 miles inland. Numerous small spurs of this mountain range extend to the coast and terminate in small slightly projecting headlands fringed with rocks and reefs that extend a short distance offshore; these headlands are separated by small coves with creeks and sandy beaches suitable for landings from ships' boats.

The depths about 1,600 yards offshore range from 14 to 16 fathoms, sand, and steadily increase seaward.

Landing in small boats can be conveniently made in either of the two small coves located respectively 3½ miles and 7 miles northwestward of Mys Shipunskiy.

Warning.—The entire water area westward of a line commencing at the southeastern entrance point of Bukhta Bechevinskaya and extending approximately 220° for about 59 miles to Mys Krutoy is dangerous for navigation. For pilots to enter this area, see Section 6-105.

6-57 Bukhta Bechevinskaya (H. O. Chart 5810) is a bay entered between Mys V khodnoy, its southeastern entrance point, located 12 miles northwestward of Mys Shipunskiy, and Mys Lovushek (meaning "Cape of Traps"), located about 114 miles

H. O. 122A

farther northwestward. This bay indents the land in a northeasterly direction for over 5 miles and has a uniform width of slightly over 1 mile. About 2 miles within the entrance of the bay a shingle spit extends from either side of the bay toward its middle; the spits approach each other at almost a right angle, leaving between their extremities a narrow passage not exceeding 80 yards in width. These spits divide the area of the bay in two nearly equal parts. The southwestern part of Bukhta Bechevinskaya is accessible to vessels. The western shore is high and cliffy; the sastern shore is lower but is precipitous and fringed by a narrow shingle and gravel beach, which in places becomes submerged at high water. Several rivulets flow into the bay. In 1919 the area around the bay was uninhabited.

6-58 Depths—Dangers.—At the entrance to Bukhta Bechevinskays and somewhat closer to its northwestern entrance point the depths are about 8 fathoms. However, it should be noted that the entrance to this bay is fronted particularly on its eastern side by an area with an uneven bottom that has numerous patches with least depths of 4½ and even 3½ fathoms. Depths of 5 fathoms or greater extend for a distance of less than 1 mile inside the entrance.

The depth in the passage between the spits is 2½ fathoms, but a narrow channel with a least depth of 1½ fathoms in the fairway leads to the passage.

The northeastern half of the bay has not been completely surveyed, but several lines of soundings show, northward of the spits, an almost immediate increase in depths that range between 23 and 28 fathoms in the greater part.

The southern side of Mys Lovushek terminates in two small projections; it is fringed with rocks and reefs that extend from it southward and southwestward for a distance of 600 yards and terminate among depths of 7 to 8 fathoms. This point should not be approached from southwestward. A short rocky ledge extends from the southeastern entrance point in southwesterly direction, and terminates in a

submerged rock 240 yards offshore.

Lights.—A light is shown on Mys Vkhodnoy, from an unpainted wooden truncated pyramid. Another light is shown on Mys Lovushek from a similar structure.

Landmark.—The entrance points to Bukhta Bechevinekaya are not conspicuous from the offing, but grayish-yellow cliffs immediately northward of Mys Lovushek stand out conspicuously against the generally darker background, and as there is no other place in the vicinity with similar coloring, this is an excellent landmark.

Anchorages.—Vessels with local knowledge may anchor in the southwestern half of Eukhta Bechevinskaya in depths from 3 to 6 fathoms, sand. A good conition is in 5½ fathoms, sand, with the two projections of Mys Lovushek in range, bearing 256°, and the southeastern entrance point bearing 175°.

6-59 Tides and tidal currents.—The mean high water interval in Bukhta Bechevinskaya is 3 hours 6 minutes. Springs rise 4½ feet; neaps, 4 feet. The tidal currents in the bey are almost imperceptible except in the passage between the spits, where, with the spring tides, the currents attain a velocity of 6 to 7 knots.

6-60 Ostrev Krasheninnikova—Dangers (plen on H. O. Chart 5810).—Ostrov Krasheninnikova, an island lying 6 miles westward of Mys Lovushek and less than 1 mile offshore, is precipitous and rises to a height of 679 feet. This island is surrounded by rocks, and a detached pillar-rock stands half a mile south-southwestward of its southern extramity. About 1 mile southward of the island there are even depths of 14 to 16 fathoms, but the area neighboring the island has not been surveyed.

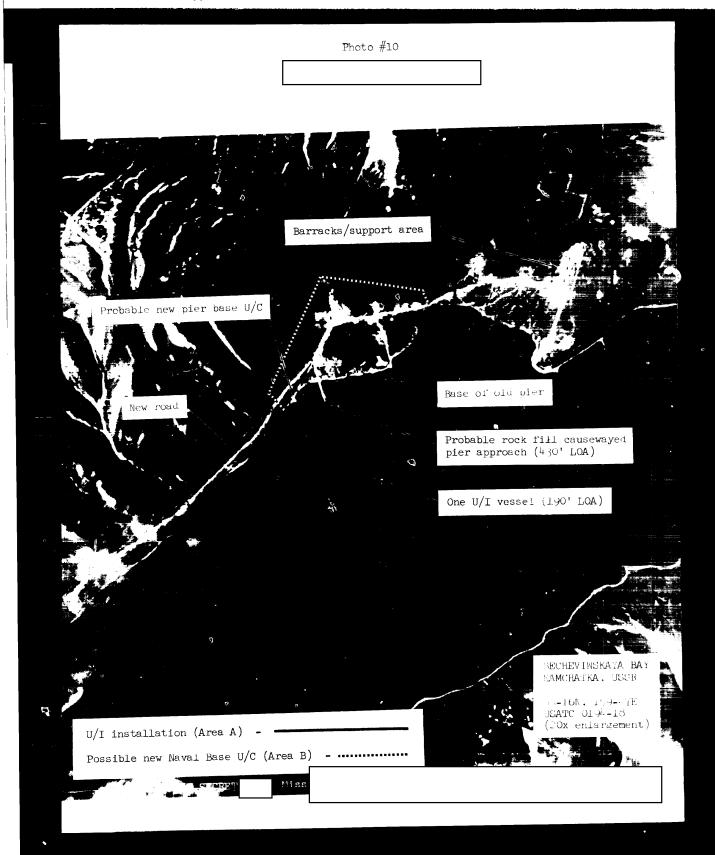
The entire area northward of a line connecting the island with the entrance to Bukhta Bechevinskaya is obstructed by scattered sunkan dangers, the outermost of which is an isolated submarged rock, only occasionally marked by breakers at low water, located 2½ miles east-northeastward of the southern extremity of the island.

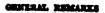


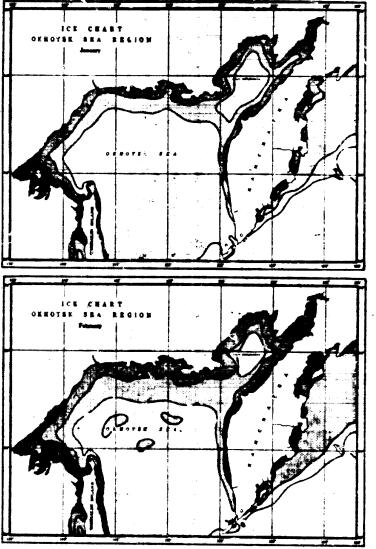


Photo #8 Completed SA-2 SAM site U/I activity tangent to mouth side of SA-2 site SHIPUNSKI PENINSULA KAMCHATKA. USSR 53-13N, 150-47E USATC 0194-18 (20x enlargement)









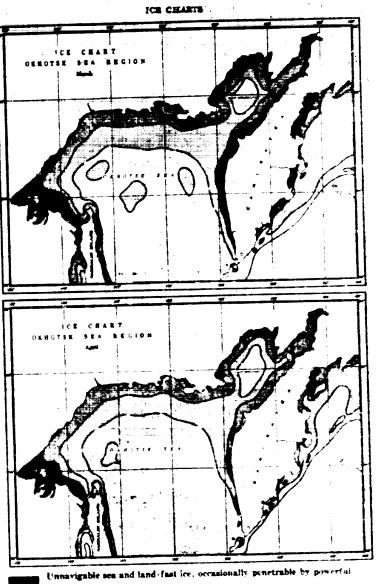
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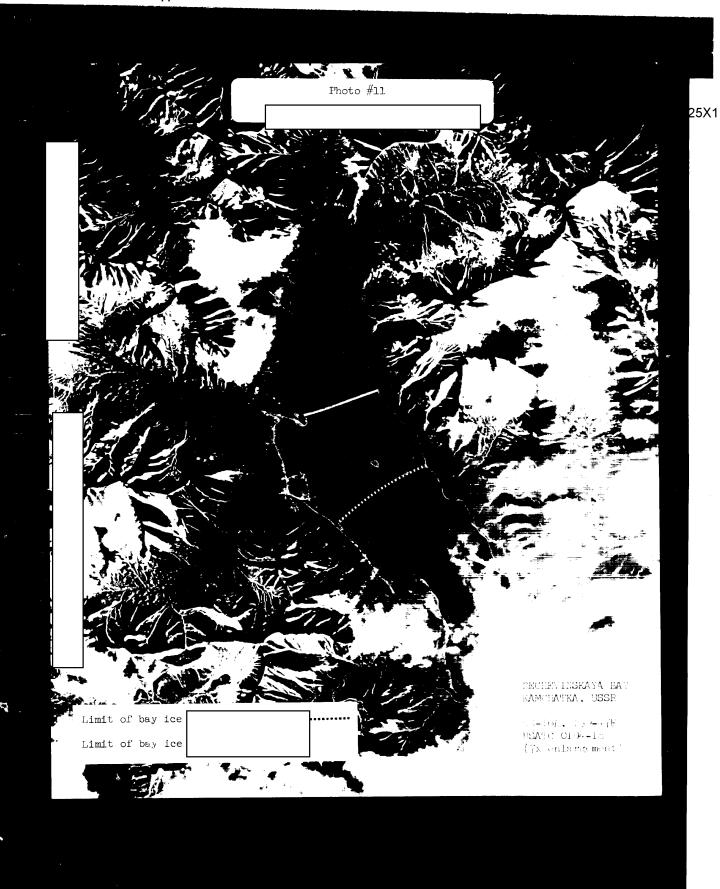
icebreakers.

Generally unnavigable sea and land-fast ice. Icebreaker assistance normally required, although at times penetrable by heavily built vessels.

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